

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

528,228
PCT/JP2003/011677



Applicant's or agent's file reference OPA2302PC	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/011677	International filing date (day/month/year) 12 September 2003 (12.09.2003)	Priority date (day/month/year) 20 September 2002 (20.09.2002)
International Patent Classification (IPC) or national classification and IPC B28B 13/02, B28C 7/16		
Applicant YOSHINO GYPSUM CO., LTD.		

- This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 5 sheets, including this cover sheet.
- This report is also accompanied by ANNEXES, comprising:
 - ☒ (sent to the applicant and to the International Bureau) a total of 2 sheets, as follows:
 - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

- ☒ Box No. I Basis of the report
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

Date of submission of the demand 22 March 2004 (22.03.2004)	Date of completion of this report 19 August 2004 (19.08.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/011677

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ The international application as originally filed/furnished
- ☒ the description:
pages _____ 1-25 _____, as originally filed/furnished
pages* _____ received by this Authority on _____
pages* _____ received by this Authority on _____
- ☒ the claims:
pages _____ 2-16 _____, as originally filed/furnished
pages* _____, as amended (together with any statement) under Article 19
pages* _____ 1 _____ received by this Authority on _____ 06 August 2004 (06.08.2004)
pages* _____ received by this Authority on _____
- ☒ the drawings:
pages _____ 1-12 _____, as originally filed/furnished
pages* _____ received by this Authority on _____
pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/JP 03/11677

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-16	YES
	Claims		NO
Inventive step (IS)	Claims	1-16	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-16	YES
	Claims		NO

2. Citations and explanations

Document 1: JP 7-503910 A (Babcock-BSH AG, formerly Büttner-Schilde-Haas AG), 27 April 1995, page 8, upper left column, line 1 to upper right column, line 3, fig. 2, & CA 2116132 A1, page 21, fig. 2, & WO 93/03899 A1

Document 2: JP 2001-300933 A (Yoshino Gypsum Co., Ltd.), 30 October 2001, entire text, fig. 1-2
(Family: none)

The inventions described in claims 1 to 12 are not disclosed in any of the documents cited in the international search report, nor would they be obvious to a person skilled in the art. In particular, none of the documents discloses a feature wherein plaster slurry is fractionated from a mixer and fed onto a plaster board base paper.

The invention described in claims 13 to 16 is not disclosed in any of the documents cited in the international search report, nor would it be obvious to a person skilled in the art. In particular, none of the documents discloses a method that includes a slurry-fractionating step wherein fractionated slurry is fed from a slurry discharge pipe onto the edge portions of a

plaster board base paper and/or a roll coater, and a slurry-discharging step wherein the plaster slurry remaining after a portion of the slurry has been fractionated is discharged through a slurry discharge port on a chute part onto the center portion of a plaster board base paper.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/ 03/11677

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The invention described in claim 10 is unclear. Claim 10 describes a feature wherein "a portion of the plaster slurry for which the amount of foam or foaming agent mixed in has been limited is discharged from the aforementioned fractionating port to the aforementioned slurry discharge pipe," but the constitution for limiting "the amount of foam or foaming agent mixed in" is unclear.